

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSENDER FOR PATENTS PO Box 1430 Alexandria, Virginia 22313-1450 www.wopto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/570,047	04/16/2007	Rolf Jessberger	29636/39363A	8165	
4743 MARSHALL, GERSTEIN & BORUN LLP 233 S. WACKER DRIVE, SUITE 6300			EXAM	EXAMINER	
			SHIN, DANA H		
SEARS TOWI			ART UNIT	PAPER NUMBER	
			1635		
			MAIL DATE	DELIVERY MODE	
			02/29/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/570,047 JESSBERGER ET AL. Office Action Summary Examiner Art Unit Dana Shin 1635 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 31 October 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)\(\times\) Claim(s) 1.2.10-19.29-32.34-44.48.49.134.139 and 140 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 1,2,10-19,29-32,34-44,48,49,134,139 and 140 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsporson's Fatont Drawing Proving (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _

6) Other:

Application/Control Number: 10/570,047 Art Unit: 1635

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-2, 10-19, 29-32, 34-44, 48-49, and 134, drawn to a method of inducing infertility in an animal comprising administering an antisense oligonucleotide that inhibits SMC1 β , which is SEQ ID NO:1 or SEQ ID NO:3 .

Group II, claim(s) 1, 10-32, 34-43, 48-49, and 134, drawn to a method of inducing infertility in an animal comprising administering a small molecule antagonist of SMC1β.

Group III, claim(s) 1, 10-32, 34-43, 48-49, and 134, drawn to a method of inducing infertility in an animal comprising administering a peptidomimetic antagonist of SMC1 β .

Group IV, claim(s) 1, 10-32, 34-43, 48-49, and 134, drawn to a method of inducing infertility in an animal comprising administering an anti-SMC1β antibody.

Group V, claim(s) 139, drawn to a method of diagnosing a disorder in an animal comprising determining the amount of SMC1 β in a sample.

Group VI, claim(s) 140, drawn to a composition comprising an agent that induces $SMC1\beta$ expression and a pharmaceutically acceptable carrier.

The inventions listed as Groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Application/Control Number: Page 3

10/570,047 Art Unit: 1635

37 CFR 1.475(b) states:

"An international or a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims

categories of invention will be considered to have unity of invention if the claim

are drawn only to one of the following combinations of categories:

(1) A product and a process specially adapted for the manufacture of said

product; or

(2) A product and process of use of said product; or

(3) A product, a process specially adapted for the manufacture of the said

product, and a use of the said product; or

(4) A process and an apparatus or means specifically designed for carrying out

the said process; or

(5) A product, a process specially adapted for the manufacture of the said

product, and an apparatus or means specifically designed for carrying out the

said process.

37 CFR 1.475(c) states:

"If an application contains claims to more or less than one of the combination of

categories of invention set forth in paragraph (b) of this section, unity of invention might not be

present."

In view of 37 CFR 1.475 (b) and 37 CFR 1.475 (c), unity of invention is not present in

the claims of the instant application because multiple processes and different categories of

invention are claimed in the instant application.

Application/Control Number:

10/570,047

Art Unit: 1635

Page 4

Furthermore, according to the guidelines in Section (f)(i)(a) of Annex B of the PCT

Administrative Instructions, the special technical feature as defined by PCT Rule 13.2 shall be

considered to be met when all the alternatives of a Markush-group are of similar nature. For

chemical alternatives, such as the claimed antitumor agents, the Marksuh group shall be regarded

as being of similar nature when

(A) all alternatives have a common property or activity and

(B)(1) a common structure is present, i.e, a significant structure is shared by all of the

alternatives or

(B)(2) in cases where the common structure cannot be the unifying criteria, all alternatives

belong to an art recognized class of compounds in the art to which the invention pertains.

In the instant application, claim 17 contains a Markush-type claim language: "wherein

said agent is selected from the group consisting of: a nucleic acid construct, a small molecule

antagonist of SMC1 β , a peptidomimetic antagonist of SMC1 β , and an anti-SMC1 β antibody".

The claimed agents are considered to be each separate invention for the following reasons:

The agents do not meet the criteria of (A) and (B)(1), because there is no common

structure shared by all of the alternatives (e.g., compare a nucleic acid construct having

nucleotides with an antibody having amino acids) and there is no common property shared by all

of the alternatives (e.g., compare DNA/RNA-binding nucleic acid construct with peptide-binding

antibody). Accordingly, unity of invention among the agents is lacking and each agent claimed

is considered to constitute a special technical feature.

Art Unit: 1635

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANA SHIN whose telephone number is (571)272-8008. The examiner can normally be reached on Monday through Friday, from 8am-4:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Douglas Schultz can be reached on 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number:

Art Unit: 1635

10/570,047

Page 6

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dana Shin Examiner

Art Unit 1635

J. E. Angell/ Primary Examiner, Art Unit 1635